Main Specifications [Tester Specifications]

Model	3298 02 (tester) + 3298 11 (sensor)	3298 02 (tester) + 3298 21 (sensor)
Sensor type	Black and white	Color
Optical system	Enclosed cylinder type (minimum optical bore diameter: 10 mm; viewing angle: approximately. 30°)	
Photodetector unit	Silicon photodiode	
Measurement field of view	Distance to specimen: In contact / 10 mm / 20 mm / 50 mm / 100 mm Visual bore in measurement: 10 mm / 19 mm / 25 mm / 42 mm / 73 mm	
Luminance measurement range	0.01 to 40,000 cd/m²	
Luminance measurement range settings	40.00/400.0/4,000/40,000 cd/m²	400.0/4,000/40,000 cd/m²
Luminance measurement precision	±4% of indicated value + ±0.035% of full-scale value (at 23 ± 3°C, 70% RH or less, with type A standard light source, when the indication is at least 2% and 2 cd/m² of the set range's full-scale value)	±4% of indicated value + ±0.035% of full-scale value (at 23 ± 3°C, 70% RH or less, with type A standard light source, when the indication is at least 2% of the set range's full-scale value)
Flicker measurement range settings	2%/4%/8%/20% rms	
Flicker measurement precision	±1% (Reference value; For sine wave of 200 cd/m², 10% rms and 30 Hz at 23 ± 3°C, 70% RH or less)	
Flicker measurement luminance range	5 to 40,000 cd/m² (for sine wave of 10% rms and 30 Hz at 23 ± 3°C, 70% RH or less)	25 to 40,000 cd/m² (for sine wave of 10% rms and 30 Hz at 23 ± 3°C, 70% RH or less)
Flicker measurement filter	Programmable low-pass filter, flicker base frequency can be selected from among 20, 30, 40, 50, 60, 70, 80 or 90 Hz	
Spectral responsivity	Approximates CIE 1931 standard spectral luminous efficiency response	Approximates CIE 1931 color matching functions
Color system	—	Chromaticity coordinates: (x, y, L) or (u', v', L) Tristimulus values: (X, Y, Z) or (R, G, B) or (RGB ratio) Correlated color temperatures: (Tc, duv, L)
Chromaticity precision (deviation in x and y values)	—	• ±0.002 or less, for type A standard light source (at 23 ± 3°C, 70% RH or less, and luminance of at least 2% of the set range's full-scale value) • ±0.03 or less, for combination of type A standard light source/three-wavelength fluorescent lamp + color filters (at 23 ± 3°C, 70% RH or less, and luminance of at least 1% of the set range's full-scale value)
User-defined luminance calibration coefficients	Linear correction of measured luminance values	—
User-defined color calibration coefficients	—	6 colors × 10 displays; XYZ measured values and entered values
Data memory	Up to 200 data for each measured item	
Input	Trigger input (contact)	
Output	Monitor output (0 to 2 V), DC luminance output (0 to 2 V), GO/NO-GO output (open collector)	
Communication port	RS-232 (9,600 to 38,400 bps)	
Operating temperature and humidity range	5 to 40°C, 70% RH or less	
Dimensions and weight	Sensor dimensions: approx. 67 (W) × 150 (H) ×40 (D) mm; tester dimensions: approximately. 107 (W) × 176 (H) × 55 (D) mm; weight: approximately. 1 kg	
Display	128 ×128-pixel dot matrix LCD	
Power supply	Four AA batteries or optional AC adapter	
Battery life	Approximately. 6 hours (for the alkaline batteries provided)	

Model and Suffix Codes

Model	Suffix Code	Specification
329802		Multimedia display tester* with 1.5 meter long extension cable
Language	-E	English display and user's manual
	-J	Japanese display and user's manual
329811		Black and white sensor, with rubber bumper
329821		Color sensor, with rubber bumper

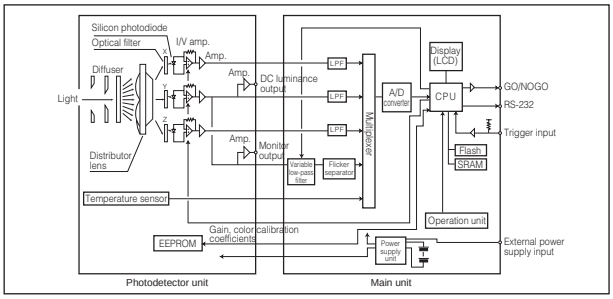
* Excluding an AC adapter; order the proper adapter with the correct input voltage separately if necessary.

Optional Accessories and Software

Product	Part Number	Specification
AC adapter	A1020UP	100 V AC adapter
AC adapter	A1022UP	120 V AC adapter
AC adapter	B9108WB	220-240 V AC adapter
Sensor cable	B8300LA	1.5 m long
Sensor cable	B8300LB	3.0 m long
Sensor cable	B8300LG	5.0 m long
RS-232 cable (for PC connection)	B8300LC	For 9-pin D-Sub connector on PC
RS-232 cable (for PC connection)	B8300LD	For 25-pin D-Sub connector on PC
Carrying case	329891	Case for storing tester
Recorder output plugs	B8300LJ	Four plugs
Rubber Bumper	B8300LH	

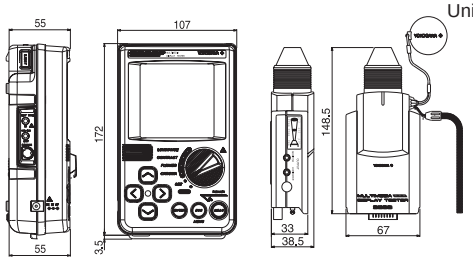
Product	Part Number	Suffix Code	Specification
Light measurement data management software	329831	-J	Japanese version
	329831	-E	English version

Block Diagram



Dimensions

Unit: mm



NOTICE

- Before operating the product, read the user's manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.

YOKOGAWA

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